# BLACKHAWK

Socket Wrenches

Water Circulating Pumps

Rest-A-Foot Throttles

CATALOG for 1926

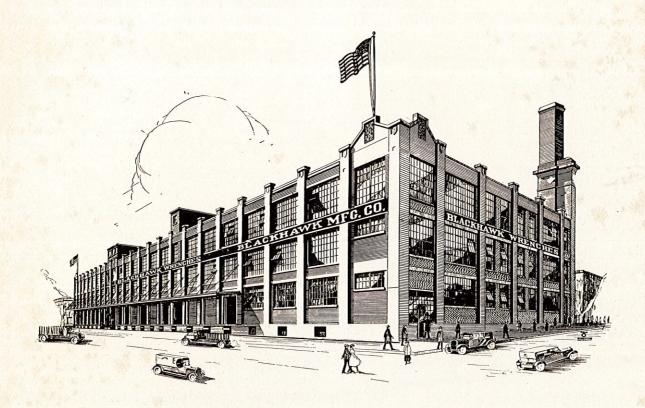
Tool Grinders ×326

# The BLACKHAWK Line

Socket Wrenches
Water Circulating Pumps
Rest-A-Foot Throttles
Tool Grinders

1926 Catalog

No. 326



## Blackhawk Manufacturing Company

General Offices and Factory
148 Broadway, Milwaukee, Wisconsin



## Blackhawk Advertising Cuts Selling Costs

Blackhawk has launched one of the largest advertising campaigns in this industry.

Its job is to make Blackhawk products still more saleable for Jobbers and Dealers.

The Saturday Evening Post is used, throughout the season, to reach the general motoristmarket.

The Country Gentleman, The Farmer, and Farm & Ranch, carry the Blackhawk story to the farmer motorists of America.

This advertising to the consumer covers Blackhawk Wrenches, Pumps and Foot Throttles. It helps the Dealer to move more goods, at less cost in time and effort.

The Dealer himself is reached, regularly throughout the year, by full-page advertisements in the leading trade journals shown in the illustration. These advertisements not only show him the goods, but help him to display and "talk" them more effectively. PARMAD RANGI Supporting all this magazine advertising, Blackhawk has THE CARNIER invested heavily in display units, merchandisers, and

Blackhawk advertising is playing a big part in the rapid, steady growth of Blackhawk business, as reported by wholesalers and retailers in all parts of the country.

effective printed matter on all Blackhawk products.

MOTOR AGE Hardware

#### Blackhawk Socket Wrenches



#### Salient Features—

Our 1926 catalog presents a line of socket wrenches that is replete with service and merchandising possibilities.

Quality and service are built into every wrench. Special analysis steel is used to give necessary strength and balance to each tool.

In addition to the usual standard types of socket wrenches, BLACK-HAWK engineers have designed many time saving tools, which find ready sale to every mechanic.

All sockets are heat treated for hardness and strength. Sockets are welded to handles—making a rigid one-piece tool. All press fit joints of handle and socket are *drilled* and *pinned*—an exclusive BLACKHAWK feature.

Thin walled sockets make all bolts and nuts easily accessible.

#### Guaranteed Tools-

Every BLACKHAWK wrench carries our guarantee against defects in workmanship and material.

#### Illustrated Size Guide—

Types and sizes of wrenches are quickly located on the chart illustrated on pages 20-21.

## Standard Packages—

All wrenches—in packages of five.

Q D sockets—in packages of ten.

Stock orders should be in accordance with above.

#### List Prices—

List prices are subject to change without notice.



## Index to Products

	Page Nos
Socket Wrenches	
Numerical Index	5 to 6
Illustrated Size Guide	20 to 21
Rim Wrenches	22 to 23
Quick Detachable Types	7 to 18
Industrial Wrenches	19
Fixed Socket Types	22 to 34
For Fords	27 to 31
Miscellaneous	24 to 27
Miscellaneous	32 to 34
Water Circulating Pumps	36 to 37
Rest-A-Foot Throttle	35
Tool Grinders	38 to 39

## Blackhawk Wrenches Numerical Price List and Index

When you see a "Hex" think of Blackhawk

			***										
	No.	Code	Lbs.	eight Oz.	Price	Page		No.	Code		eight		
	A	Racine		13	\$2.50	13		(24		Lbs.		Price	Page
	В	Radford		2				34	Anker		7	.65	12
	c				2.50	13		36	Antler		8	.65	12
	D	Raton	7	4	3.00	13		36X	Apure		7	.70	12
		Rail		4	6.00	13		38X	Arabia		9	.70	12
	E	Rack	16	12	6.50	13, 19		40	Apia		9	.65	12
	Т1	A1. 1		100			Sockets	No.					
		Abode		2	.50	11	- K	40X	Arad		12	.70	12
	T2	Azuza		8	1.65	11	00	40 X X	Arena	1	6	1.00	12, 19
	Т3	Alki		8	2.25	11		44X	Arbil	1		.80	12
	T4	Avon		15	.60	10	0	46X	Arbor	1		.80	12
	T4X	Adam	3	5	1.50	16	exagon	46XX	Argos	1	8		
									goo	•	0	1.25	12, 19
	T4XX	Adobe	5	1	1.65	19	H	48X	Arc	1	3	.80	12
	T5	Athol	1		.60	11	Ö.	50X	Arcot	1	4	1.00	12
	T6	Austin		10	.65	11		52X	Arden	1	5		
	T8	Alamo		12	.70	11	0	52XX	Arica			1.20	12
	T8X	Alcove	1	10				58XX		1	13	1.60	12, 19
				10	1.00	16		JOAA	Arno	1	15	2.20	12, 19
	T8XX	Afton	2	15	3.30	19		64XX	Aruba	•			
	Т9	Ace		7	.50			70XX		2	11	2.60	12, 19
	T9X	Ally		6		11			Asia	3	6	3.00	12, 19
	T9XX				.50	11		76XX	Asti	4	6	3.50	12, 19
		Anode	• •	12	.75	11		4B	Ash		3	.65	11
	T10	Alba		15	.75	11		6B	Arma		5	.75	11
	T11	Alma			2 500			op					
		Alma		4	.50	11		8B	Anita		7	.80	11
	T13	Alpine		1	.35	10		1	Abba	143		149.10	7, 8, 9
	T13XX	Alone		6	1.00	19		1A	Brine	76		85.75	7, 8, 9
	T013XX	Ardent		5	1.00	19		12	Brave	46	8	35.70	19
	T15	Arpin	1	3	1.00	10		12E	Born	54	5	42.20	19
	maa												
	T16	Anna		4	1.50	11		18A	Boaz	15	2	13.10	14
	T17X	Apex	3		1.10	16		22C	Beroun	22	2	16.40	14
	T17XX	Antigo	4	14	4.00	19		23	Beaver	9	3	11.90	16
	T18	Anchor		4	1.50	11		30	Ben	5	7	4.45	27
	T20	Armor		4	1.50	11		32C	Basco	25		20.60	15
										23	• •	20.00	13
	T22	Army		6	1.75	11		35	Boat	16	10	10.30	16
	T24	Atlas		6	1.75	11		35B	Boulder	21	2	11.80	16
	T26			7	1.75	11		43D	Bruce	49			
	T28	Atta		7	1.75	11		45	Broom		• •	32.95	15
	T40XX	Anon	1	4				50		6		4.20	27
	1107171	2111011	1	- 4	1.60	19		30	Bestow	7	4	4.80	27
	T60	Aniwa		11	.75	11		110	Cades		11	70	10
	T80	Attica		13	.80	11		110X	Cisco	• •		.70	10
	T90	Anew		13	.75	11		128	Cable	1	2	.75	10
	T100	Avalon	1	1							9	.65	13
	(012		•		.85	11		130	Cedar		10	.65	13
	012	Absent		3	.30	12		136	Carl		12	.75	13
	014	Abbot		3	.30	12		144	Club				
ts	016	Abo									15	.95	25
Sockets	018			3	.35	12		150	Chub	1	12	1.25	17
oc		Acadia		3	.35	12		200	Case	90		39.95	18
S	019	Accra		3	.40	12		210	Cecil	1	1	.75	10
e e	020	Achin		4	.40	12		218	Cider	1	8	.75	11
quare	022	Adam			1			000	* 01				
	022	Aden		5	.40	12		230	Cigar	2	9	.90	11
02	024	Adio		5	.50	12		310	Camp	1	5	.80	10
D.	025			6	.50	12		400	Dewey	75		42.95	28
	028	Agra		9	.60	12		411	Demise	5	7	4.50	17
0	032	Ago		9	.60	12		414	Detail		2	.50	13
15.3	034	Ain		10	70	10		416		177			
- 114		Ain		10	.70	12		416			3	.75	13
	040			14	.80	12		423C	Dipper	22	6	16.35	17
	14	Ajmer		2	.30	12		432			5	.40	13
	16			2	.30	12		438	Doric	1	14	.75	13
ets	18	Albany		2	.30	12		451	Door		12	.75	13
Sockets												11	
30	19	Albert		2	.30	12		475	Eagle		6	.70	24, 26
1775	20			3	.30	12		490		79		44.55	32
Ou	22			3	.30	12		500	Elba	1	7	1.20	10
Hexagon	24			3	.40	12		516	Eldon				
ex	25			4		12				1	8	2.00	24
H				7	.40	12		518	Elk	1	8	2.00	24
	26	Alps		4	.40	12		520	Elsev	1	10	2.00	24.20
D.	28			5					Elsey	1	10		24, 30
ö	30	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	••		.40	12		522	Edge	1	10		24
9		Amoy		6	.50	12		524	Ellen	1	10		24
ARR	31		• •	6	.50	12		526	Eline	1	10	2.25	24
	32	Andes		6	.50	12		528	Elto	1	11	2.25	24

When
you see a
"Hex"
think of
Blackhawk

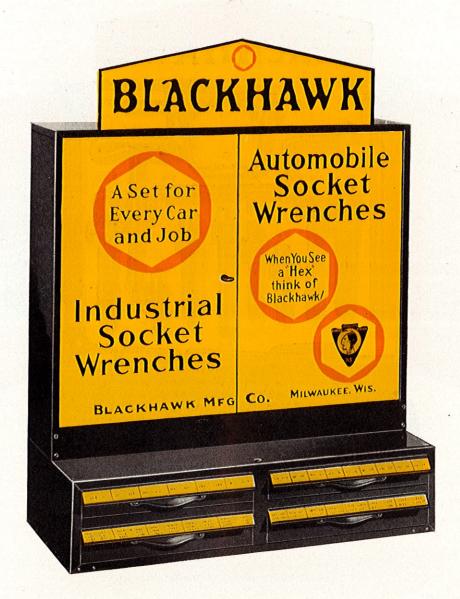
# Blackhawk Wrenches Numerical Price List and Index

AND DESCRIPTION OF THE PARTY OF											
No.		Wei	ght	D .	D	No.		We	eight	800 0	Ne
	Code	Lbs.	Oz. 10	Price .80	Page 24	3116	Code	Lbs.		Price	Page
575	Elan						Joplain	1	• •	.70	24
610	Fort	1	15	1.05	10	3118	Jade	1	5	.70	24, 30
616	Fink	1	10	2.50	24	3119	Kelso	1	5	.70	24
618	Fan	1	10	2.50	24	3120	Kent	1	6	.70	24, 30
620	Ford	1	13	2.50	24, 30	3122	King	1	6	.70	24
		50	was:	50.00	Stellan.	0.000000					
622	Foot	1	13	2.75	24	3124	Kipp	1	6	.70	24
624	Fork	1	13	2.75	24	3125	Kirk	1	6	.70	24
626	File	1	14	2.75	24	3126	Kyle	1	6	.70	24
628	Filler	1	14	2.75	24	3128	Knapp	1	6	.70	24
650	Foster	5	5	4.40	27	3310	Lake	1	8	1.00	10
030	100001					0010	Danc		0	1.00	10
710	Fowl		3	.40	16	3329	Lark		9	.50	26
712	Gaff		4	.40	16	3432	Levy	1	14	1.45	25, 29
714	Galena	•	4	.40	16	3640	Mason	2	8	1.60	25
			4		16	3731	Lear		9	.50	26
716	Galley			.40		4002	Lane	1			
718	Gallows		4	.40	16	4002	Dane	1	3	.95	29
720	Gamut		4	.40	16	4003	Linn		4	.50	29
					16	4018	Loom	2	3	1.00	31
724	Gander	•:	4	.40		4020X	Lard		13	.65	29
911X	Gold	1	5	2.75	10	4024	Lime	1	10		
920	Grant	5	7	10.00	19	4072	Gull			.90	31
1000	Gout	15	4	13.00	31	10,2		68	• •	57.80	34
						4116	Mask	1	4	.85	24, 30
1001	Goat	1	4	1.45	31	4118	Munster	1	4	.85	24
1002	Good		13	.95	31	4120	Malta	1	2	.65	29
1003	Goblin	2	2	1.55	25	4124	Mire	1	6		
1004	Gorge	2	11	3.25	31					.90	31
1005	Grace	1	9	1.25	31	4218	Milo	1	3	.95	25, 29
						4219X	Moro	1	8	1.40	29
1006	Grade		15	1.00	31	4222	Myrtle		5	.50	29
1114	Glen		9	.60	25	4222X	Mosby		4		29
1116	Green	107	9	.60	25	4230	Mish			.90	
1118	Gould		10	.60	25			1		.85	29
			12	.60	25	4320	Miner	• •	13	.80	25, 29
1119	Gavin	• •	12	.00	23	4330	Nuts	1	14	1.20	25, 29
1120	Guy		12	.60	25	4418X	Marsh	1	-	.90	29
1122	Hicks		12	.60	25	4422	Moody	1	2	1.25	29
		• • •	13	.60	25	4424	Muzzle	1	8		
1124	Hale	• •				4924X				1.00	25, 29
1125	Haig	• •	13	.60	25	49241	Main	1	6	1.10	26
1126	Hill		13	.60	25	4926	Merils	1	5	1.50	26
1100	TT:		10	60	0.5	4928	Mate	1	5	1.50	26
1128	Hirst		13	.60	25	4950	Marvel		6	.90	26
1214	Hoop		14	.90	24	5000	Ives	40		18.95	
1216	Honey		14	.90	24						23
1218	Hop	1	5	.90	24	5020	Mace	1	8	.75	23
1220	Hugo	1	5	.90	24	5022	Maple	1	8	.75	23
						5024	Mink	1	8	.75	23
1224	Hunter	1	7	.90	24	5026	Menace	1	8	.75	23
1416	Hugh		8	.85	25	5028	Mole	1	8	.75	23
1618	Hutten		11	.90	25, 30	5104					
1820	Hump		14	.95	25		Moran	3	13	3.95	22
2020	Hoxy	1	4	1.35	26	5200	Narenta	29	8	9.00	23
						5200F	Nanny	29	8	9.00	23
2020X	Hoax	1	3	1.35	26	5220	Nadeau	1	6	.50	23
2114	Hoxie		13	.65	24	5222	Norway	1	6	.50	23
2116	Hyde		13	.65	24	5224	Northland	1	6	.50	23
2118	Hurd	1	1	.65	24						
2119	Hudson	1	1	.65	24	5228	Northport	1	6	.50	23
		•	•	.03		5504	Norton	5	3	4.95	31
2120	Iowa	1	1	.65	24	6114	Nelson	1	8	.95	24
2122	Isbell	1	2	.65	24	6116	Neola	1	8.	.95	24
2124	Imes	1	2	.65	24	6118	Newark	1	9	.95	24, 30
2125	Irwin	1	2		24	6119	Nick	1	9	.95	24
				.65		6120	Noble	1	9	.95	24, 30
2126	Iola	1	2	.65	24	6122	Nutts	1	9	.95	24
2128	Jasper	1	2	.65	24	6124	Owl	1	9	.95	24
								1			
2214	Jockey	••	15	.90	25	6125	Oxly	1	9	.95	24
2216	Juice	.:	15	.90	25	6126	Otis	1	10	.95	24
2218	Jowl	1	4	.90	25	6128	Ozan	1	10	.95	24
2220	Jobin	1	4	.90	25	6218	Oxford	2	10	2.75	30
						6310	Paul	1	15	1.35	10
2224	Jackal	1	8	.90	25, 26, 30		Parrott	2			
2422	Jazz	1	4	1.15	25	6316	Laitott	-		1.25	24, 30
2830	Jack	1	10	1.45	25	6318	Peru	2		1.25	24, 30
3018	Jacose	2 .	14	1.50	31	6322	Grink	2		1.25	26
3114	Jenny	1		.70	24	6500	Moco	66		43.65	33
	-	-		1. 50		3.50		188	803.		1975

No. 1 Display Cabinet

A MERCHANDISER FOR DEALERS





Every Accessory and Hardware Dealer should have this attractive Display Cabinet

Fully described on following page

Free to dealers with Assortment

When you see a "Hex" think of Blackhawk

No. 1 Stock Cabinet Assortment

QUICK DETACHABLE WRENCHES



#### A Real Merchandiser of Socket Wrenches

With this cabinet the dealer can make up a special set for any car, whether for car owner or garage mechanic, or can furnish the wrench required for any bolt or nut on any car. Any Q. D. set listed in this catalog can be made up from this cabinet. We furnish with this assortment a Q. D. Wrench Manual, which lists all popular cars alphabetically, suggesting a set for every car, also giving sizes of sockets required for various bolts and nuts on every car.

The cabinet is 28 inches high, 25½ inches wide and 11¾ inches deep, made of all steel and beautifully lithographed in four colors. Each drawer compartment is labeled in front, telling just what it contains.

No accessory or hardware dealer can afford to be without one.

cabinet 62 lbs. List complete ...... 85.75

NOTE-For List of Contents see following page.

## Contents of No. 1 Stock Cabinet Assortment

#### WRENCH HANDLES AND PARTS

Four No. T4 offset and T handles. Four No. T5 double end handles. Four No. 110X offset handles.

Four No. T15 half speeder or crank handles. Four No. 3310 long T handles. Four No. 500 brace wrenches.

Four No. 610 speeders, 19 1/8 in. overall. Four No. 911X ratchet handles, 10 in. long. Two No. T3 reversible ratchets.

Four No. T60 extension bars, 6 in., with speed grip. Four No. T8 extension bars, 8 in. long.

Four No. T10 extension bars, 10 in. long.
Two No. T4X heavy duty sliding tee.
Two No. T8X heavy duty extension bar, 8½ in. long.
Two No. T17X heavy duty extension bar, 17 in. long.

#### HEXAGON SOCKETS

Six No. 14 hexagon sockets. Ten each Nos. 16, 18, 20 and 24 hexagon sockets. Six each Nos. 22 and 28 hexagon sockets. Five each Nos. 19, 25, 26 and 30 hexagon sockets. Three each Nos. 31, 34 and 36 hexagon sockets. Four No. 32 hexagon sockets. Two each Nos. 40, 36X, 40X, 44X, 46X, 48X, 50X and 52X hexagon sockets.

#### SQUARE SOCKETS

Three each Nos. 012, 014, 016, 018 and 020 square sockets. Two each Nos. 019, 022, 024, 028, 032, 034 and 040 square

#### UNIVERSAL JOINTS

Two each Nos. T16, T18, T20, T22 and T24 universal joints. One No. T28 universal joint. Three No. T2 universal joints.

#### ADAPTERS

Two each Nos. T9 and T9X adapters.

#### TIE ROD SOCKETS

Three No. T1 tie rod sockets.

#### VALVE GRINDER ATTACHMENTS

Three No. T11 valve grinder attachments.

#### SPARK PLUG SOCKETS

Two each Nos. 128, 130 and 136 spark plug sockets. TOTAL CONTENTS—218 tools.

## Contents of No. 1A Stock Cabinet Assortment

When you see a "Hex" think of Blackhawk

#### WRENCH HANDLES AND PARTS

Three No. T4 offset and T handles. Two No. 175 double end handles.
Two No. 110X offset handles.

Two No. T15 half speeder or crank handles. Three No. 3310 long T handles.

Two No. 500 brace wrenches.

Two No. 610 speeders, 19 in. over all.
Two No. 911X ratchet handles, 10 in. long.
Two No. T60 extension bars, 6 in., with speed grip.
One No. T3 reversible ratchet.

One No. 13 reversible ratchet.

Two No. T8 extension bars, 8 in. long.

Two No. T10 extension bars, 10 in. long.

One No. T4X heavy duty sliding tee.

One No. T8 heavy duty extension bar, 8½ in. long.

One No. T17X heavy duty extension bar, 17 in. long.

#### HEXAGON SOCKETS

Three No. 14 hexagon sockets. Six each Nos. 16, 20 and 24 hexagon sockets. Eight No. 18 hexagon sockets. Four No. 22 hexagon sockets. Three each Nos. 19, 25, 26 and 28 hexagon sockets. Two each Nos. 30, 31, 32 and 34 hexagon sockets. One each Nos. 36, 40, 36X, 40X, 44X, 46X, 48X, 50X and 52X hexagon sockets.

#### SQUARE SOCKETS

One each Nos. 012, 014, 016, 019, 022, 024, 028, 034 and 040 square sockets. Two each Nos. 018 and 020 square sockets.

#### UNIVERSAL JOINTS

One each Nos. T16, T18 and T20 universal joints. Two No. T2 universal joints.

#### ADAPTERS

One No. T9 and T9X adapters.

#### TIE ROD SOCKETS

One No. T1 tie rod socket.

#### VALVE GRINDER ATTACHMENTS

Two No. T11 valve grinder attachments.

#### SPARK PLUG SOCKETS

One each Nos. 128, 130 and 136 spark plug sockets. TOTAL CONTENTS—116 tools.

NOTE-Wrench sets for any car can be made up from the above cabinet assortments used in conjunction with our special steel wrench set boxes described on following pages. List of wrenches adaptable to the various makes of cars will be found in our Q. D. Wrench Manual, "A Set for Every Car."

When you see a "Hex" think of Blackhawk

## Blackhawk Q. D. Wrenches

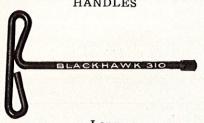
BLACKHAWK handles are made of special steel. All attachments and sockets are heat treated wherever necessary. Notice their husky appearance and tough baked on black finish. Each tool perfectly balanced.

#### Q. D. LONG AND SHORT TEE HANDLES



Q. D. OFFSET HANDLES

#### Q. D. SPEEDER HANDLES



Long

1/2 in. diameter, shank 12 in. long

No. 310-Weight 1 lb. 5 oz.....\$0.80

Short

1/2 in. diameter, shank 6 in. long

No. 210-Weight 1 lb. 1 oz....\$0.75

With Knurled Grip

5/8 in. diameter, 10 % in. long

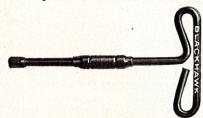
		Each
No.	110X-Weight 1 lb. 2 oz.	 \$0.75
Old	No. 110-Weight 12 oz	 .70



1/2 in. diameter, handle 28 in. long, with steel knob.

				Each
No.	6310-Weight	2	lbs	 .\$1.35

### Q. D. TEE HANDLES



With Speed Grip

Handle 71/4 in. wide, 1/2 in. diameter, shank 12 in. long.

No. 3310—Weight 11/2 lbs.....\$1.00

#### Q. D. RATCHET WRENCHES

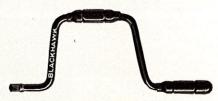


Made from high grade steel, heat treated. Rotation ball and spring in lug engage slots in ratchet wheel and lock lug in same. Will not stick in sockets.

The 1/2 in square ratchet lug can easily be pushed to the other side, thus changing the direction of ratchet.

	Each
No. 911X—Complete with	h one
ratchet lug. Weight 1 lb	. 5 oz. \$2.75
No. T13-Extra ratche	t lug.
Weight 2 oz	

Q. D. BRACE HANDLES



½ in. diameter handle.

This brace may be used with extension bar, universal joint, etc. Has one-piece steel grips. A very useful tool.

No. 500-Weight 1 lb. 7 oz....\$1.20

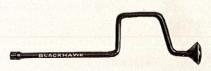
#### Q. D. HALF SPEEDER OR CRANK HANDLES



 $\frac{5}{8}$  in. diameter, 5 in. shank,  $\frac{41}{4}$  in. handle.

No. T15—Weight 11/4 lbs.....\$1.00

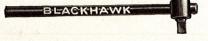
#### Q. D. SPEEDER HANDLE



in. diameter, handle 19 in. long, with steel knob.

No. 610—Weight 1 lb. 15 oz....\$1.05

#### SLIDING TEE HANDLES



10 in. diameter, 101/4 in. long. Slides freely in the wrench head. Used with extension bars. Makes either L or tee wrenches.

No. T4-Weight 15 oz.....\$0.60

## Blackhawk Q. D. Wrenches and Attachments

When you see a "Hex" think of Blackhawk

All BLACKHAWK Q. D. handles can be used with all our sockets, combination sets or attachments. They are also interchangeable with all makes of sockets having the  $\frac{1}{2}$  in. standard opening. This gives BLACKHAWK Q. D. wrenches the greatest possible range of utility and makes them easily adapted to the needs of anyone using wrenches.

## Q. D. UNIVERSAL JOINT SOCKETS



Used in connection with all Q. D. handles. Are made extra strong, properly heat treated. Save you lots of time reaching those nuts hidden under crank cases that cannot be reached with regular sockets.

Will fit any make handle that has standard 1/2 in. shank.

		et Sizes					
T16-1/2	in.	hexagon.					\$1.50
$T18 - \frac{9^2}{16}$	in.	hexagon.					1.50
T20-5/8	in.	hexagon.					1.50
$T22-\frac{11}{16}$	in.	hexagon.					1.75
		hexagon.					
		hexagon.					
		hexagon.					
		_					

Weight 7 oz. each

#### SOCKET ADAPTERS



No. T9-X—Adapter for heavy duty sockets to standard ½ in. handles. Each . . . . . . . . \$0.50

No. T9-XX—Adapter for extra heavy duty sockets to 3/4 in. heavy duty handles. Each....\$0.75

No. T9—Adapter for standard ½ in. sockets to ¾ in. heavy duty handles. Each .....\$0.50

No. T90—Adapter for heavy duty 3/4 in. sockets to extra heavy duty handles. Each ..........\$0.75

Above adapters are made for convenience and will make entire BLACKHAWK standard, heavy duty and extra heavy duty sockets and handles interchangeable. For best results we recommend the use of sockets with the size handles for which they were designed.

## Q. D. VALVE GRINDER ATTACHMENTS



For any Q. D. speeder handle. Points will fit all valves. Very useful.

												Each
No.	T11	 										.\$0.50

## DRAG LINK ADJUSTING WRENCHES



Each
No. T1—Tie rod or
drag link adjusting
wrench .....\$0.50

#### Q. D. EXTENSION BARS

#### UNIVERSAL JOINTS



Made from the very best material. Heat treated.

Has ½ in. standard male and female connections. May be used with any Q. D. handle wrench or parts contained in our combination sets.

No. T2—Weight 6 oz......\$1.65

#### Q. D. RATCHETS



A strong reversible ratchet attachment used with all Q. D. handles and extension bars, making it possible to use a ratchet wrench in inaccessible places where the standard wrench cannot be used

No. T3—Ratchet. Weight 8 oz..\$2.25

## BLACKHAWK

Nos.	Length	Weight	Eac
<b>T6</b>	6 in.	7 oz.	\$0.6
T8	8 in.	10 oz.	.7
T10	10 in	13 07	7



#### With Speed Grip

Nos.	Length	Weight	Each
T60	6 in.	12 oz.	\$0.75
T80	8 in.	15 oz.	.80
T100	10 in.	1 lb. 2 oz.	.85

#### Q. D. STRAIGHT BARS



With these bars the mechanic can make his own handles to fit his requirements by bending them to the desired shape.

Nos.	Length	Weight	Each
218	18 in.	1 lb. 7 oz.	\$0.75
230	30 in.	2 lbs. 9 oz.	.90

#### Q. D. DOUBLE END OFFSET

## Q. D. BIT SHANKS



Nos.	Length	Weight	Each
4B	4 in.	4 oz.	\$0.65
6B	6 in.	5 oz.	.75
8B	8 in.	7 oz.	.80

# BLACKHAWK

5/8 in. diameter, 3x10 in. long

No. T5—Weight 14 oz......\$0.60

When
you see a
"Hex"
think of
Blackhawk

## Blackhawk Q. D. Sockets

Machined from the solid bar steel (of special analysis), accurately broached  $\frac{1}{64}$  in. oversize, insuring a perfect fit. Properly heat treated, assuring greatest service, all sockets having proper depth and thickness of wall to give greatest efficiency. Tapered to go in tight places. Every socket guaranteed.









Showing Taper of Hex Sockets

ORDER

BY

STOCK

**NUMBERS** 

#### STANDARD HEX SOCKETS

Q. D. Handle Openings

⅓ Sq. Handle Openings
Table of Standard Hex Sockets

	1 81	ne or	Cotanua		DOC	teta	_
Socket No.	Socket Size	U.S.S. Nuts and Bolts	Hex Hcd. Cap Screws U. S. Std.	S.A.E. Std. Nuts and Cap Screws	Mfg. Std. Bolt Hds.	Coach	List Price
14	7-16	11/10	1-4	1-4	1-4		30
16	1-2	1-4	5-16	5-16			30
18	9-16		3-8	3-8		3-8	30
19	19-32	5-16		1		No.	30
20	5-8	12.31	7-16	7-16	3-8	F	30
22	11-16	3-8		1-4-	197		30
24	3-4		1-2	1-2		1-2	40
25	25-32	7-16				1911	40
26	13-16	WEE	9-16	1 200	1-2		40
28	7-8	1-2	5-8	9-16	MEXICA	1/13/2	40
30	15-16		WAY &	5-8	1000	5-8	50
31	31-32	9-16	394	100			50
*32	1		3-4	11-16	5-8	3433	50
*34	1:1-16	5-8	18. 18	3-4			65
36	1:1-8		7-8			3-4	65
40	1:1-4	3-4	1	7-8			65

<sup>\*</sup>Nos. 32, 34 can be furnished with ¾-inch opening at same list price add X to number.

# HEAVY DUTY SOCKETS

Q. D.

¾" Sq. Handle Openings

Sockets are Interchangeable with Std. or Extra
Heavy Duty Sockets or Handles
by use of Adapters

Table of Heavy Duty Hex. Sockets

Socket No.	Socket Size	U.S. S. Nuts and Bolts	Hex. Hed. Cap Screws U. S. Std.	S.A.E. Std. Nuts and Cap Screws	Mfg. Std. Bolt Hds.	Coach	List Price
36x	1:1-8		7-8	7		3-4	70
38x	1:3-16				3-4	X. 1	70
40x	1:1-4	3-4	1	7-8	MAN		70
44x	1:3-8		1:1-8		7-8		80
46x	1:7-16	7-8		1			80
48x	1:1-2	Series	1:1-4		10	1	80
50x	1:9-16				1		1.00
52 <b>x</b>	1:5-8	1	7	1:1-8			1.20

## EXTRA HEAVY DUTY SOCKETS Q. D.

¾ Sq. Handle Openings

Table of Extra Heavy Duty Hex. Sockets

Socket No.	Socket' Size	U. S. S. Nuts and Bolts	Hex. Hed. Cap Screws U. S. Std.	S.A.E. Std. Nuts and Cap Screws	Mfg. Std. Bolt Hds.	List Price
40xx	1:1-4	3-4	1	7-8	7-3	1.00
46xx	1:7-16	7-8	in and	1	avii -	1.25
52xx	1:5-8	1		1:1-8		1.60
58xx	1:13-16	1:1-8		1:1-4	1:1-8	2.20
64xx	2	1:1-4		1:3-8	1:1-4	2.60
70xx	2:3-16	1:3-8		1:1-2	1:3-8	3.00
76xx	2:3-8	1:1-2	158	BUZZ	1:1-2	3.50

## STANDARD SQUARE SOCKETS Q. D.

1/2 Sq. Handle Openings

Table of Square Sockets

Socket No.	Socket Size	U.S. S. Nuts and Bolts	U.S.S. Cap Screws	Square Head Set Screws	Coach	List Price
012	3-8		1-4	3-8	1-4	30
014	7-16	E TOTAL	5-16	7-16		30
016	1-2	1-4	3-8	1-2		35
018	9-16		7-16	9-16	3-8	35
019	19-32	5-16	The said	133		40
020	5-8		1-2	5-8		40
022	11-16	3-8	9-16			40
024	3-4	N. S. S.	5-8	3-4	1-2	50
025	25-32	7-16		Twis at		50
028	7-8	1-2	3-4	7-8		60
032	1	9-16	18/1/11/02	1		60
034	1:1-16	5 8	<b>33/4</b> 9		TON.	70
040	1:1-4	3-4	1	1:1-4		80





How Q. D. Sockets Slip On and Off

## Special Sockets

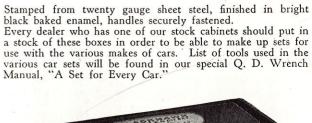
# Metal Cases for Q. D. Wrench Sets

When
you see a
"Hex"
think of
Blackhawk



#### SPARK PLUG SOCKETS

No.	128—Fits	all	7/8 in. spark plugs	65
No.	130—Fits	all	1/2 in. spark plugs (Ford size)	.65
No.	<b>136</b> —Fits	all	11/8 in. spark plugs	.75





No. A







This socket specially designed for use on Ford front wheels.  $1\frac{5}{3}$  in. hexagon socket fits lock nuts,  $1\frac{1}{8}$  in. oval opening fits adjustable cone. Can be used with  $\frac{1}{2}$  in. Q. D. handles.

No. 451—Weight 11/4 lbs. Price.....\$0.75



No. B



No. 438



No. C

## CAM GEAR LOCK NUT WRENCH FOR FORD CARS

Can be used with any standard 1/2 in. Q. D. handle.

No. 438—Weight 1 lb. 14 oz. Price......\$0.75



No. D



No. 414





I- 416

No. 43

		Each
No.	414—Special Alemite Socket	0.50
	416—Wing Nut Socket	
No.	432—Fanshaft Socket for Fords	.40

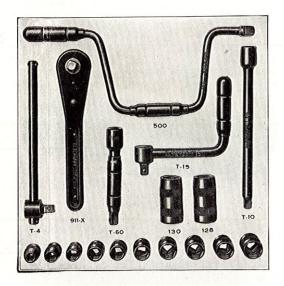
Finished in bright black baked enamel.

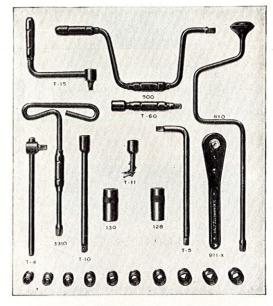


## Blackhawk Q. D. Socket Wrench Sets

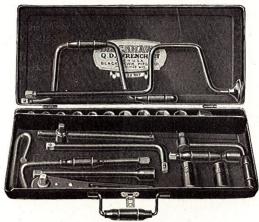
NO. 18A SET











Set contains 18 tools. A very handy compact set of Q. D. wrenches, handles and sockets for mechanics. Also makes a very compact set for car owner who makes his own repairs.

Set contains 22 tools, covering complete range of handles and 10 popular sizes of hexagon sockets. Especially adapted for mechanics.

Contents of Set

One No. 911X ratchet handle. One No. 610 speeder handle. One No. 500 brace handle.

One No. 15 offset handle.

One No. T10 extension bar.

One No. T60 speed grip extension bar.

One No. T15 half speeder handle.

One No. T4 sliding tee.

One No. 3310 tee handle with speed grip.

One No. T11 valve grinder attachment.

One No. To offset handle.

hexagon sockets.

#### Contents of Set

One No. 911X ratchet handle.

One No. T4 sliding tee and offset handle. One No. T15 half speeder handle.

One No. T60 extension bar with speed grip.
One No. T10 extension bar.

One No. 500 brace handle.

One each Nos. 128 and 130 spark plug sockets.
One each Nos. 14, 16, 18, 19, 20, 22, 24, 25, 26 and 28 hexagon sockets.

Weight Per Set 15 lbs.

No. 18A Set—Complete, packed in Metal Case No. A.\$13.10 No. 22C Set—Complete, packed in Metal Case No. C.\$16.40

One each Nos. 128 and 130 spark plug sockets. One each Nos. 14, 16, 18, 19, 20, 22, 24, 25, 26 and 28

Weight Per Set 21 lbs.

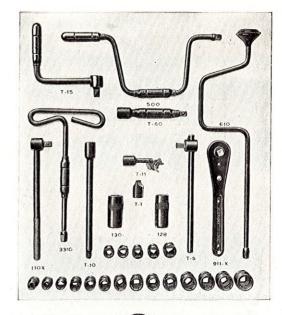
## Blackhawk Q. D. Socket Wrench Sets

When you see a "Hex" think of Blackhawk

NO. 32C SET

NO. 43D SET









Set contains 32 tools. A very complete set for garage use. Will give the mechanic the range of sizes and types of handles he needs for almost any kind of work.

#### Contents of Set

One No. 911X ratchet handle. One No. 610 speeder handle. One No. 500 brace handle. One No. T10 extension bar.
One No. T60 extension bar with speed grip.

One No. T15 half speeder handle.
One No. T4 sliding tee.
One No. 3310 tee handle with speed grip.
One No. T11 valve grinder attachments.
One No. T10X offset handle.

One No. T1 tie rod socket.
One each Nos. 012, 014, 016, 018 and 020 square sockets. One each Nos. 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 31, 32 and 34 hexagon sockets.

One each Nos. 128 and 130 spark plug sockets.

Per Set No. 32C Set-Complete in Metal Case No. C.....\$20.60

Weight Per Set 231/2 lbs.

Set contains 43 tools. A superior service set of Q. D. wrenches. Made up by combining No. 32 regular service set and No. 35 heavy duty set and all tools contained in Nos. 32 and 35 sets are included in the contents of No. 43

with this set the mechanic has every necessary tool for working on all automobiles and largest trucks.

No. 43D Set-Complete in Metal Case No. D.....\$32.95

Weight Per Set 481/2 lbs.

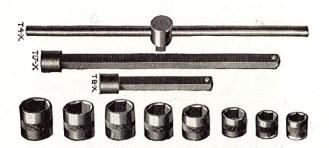


## Blackhawk Q. D. Heavy Duty Socket Wrench Set

NO. 35B SET

## Blackhawk Q. D. Drain Plug Service Set

NO. 23 SET





Heavy duty socket and handles for industrial use, trucks, tractors, farm engines and machinery.

Every garage should have one of these sets, especially for wheel, drive shaft, axle shaft and steering arm nuts. Case is made of 20 gauge steel.

Sockets have 3/4 in. handle openings

#### Contents of Set

One No. T4X sliding tee handle, 19 in. long, bar made from 18 in. stock with 3/4 in. square shank on sliding socket adapter. One No. T8X extension bar, 81/2 in. long. One No. T17X extension bar 17 in. long. Eight hexagon sockets, sizes 11/8 to 15/8 in., Nos. 36X, 38X, 40X, 44X, 46X, 48X, 50X and 52X.





Sockets will fit a wide range of cars. For removing plugs to drain crank cases, also for drain and refill plugs in transmission and differential housings. Sliding bar handle can be used as a tee or offset.

Very essential in all oil and gasoline service stations.

#### Contents of Set

One No. T4 sliding handle.
One No. T6 extension bar.
One No. T1 attachment for drain plugs with slots.
One each hexagon sockets, Nos. 16, 24, 30, 32, 34 and 36.
One each square sockets, Nos. 014, 016, 018, 020, 022, 024 and 028.
One each square plugs, Nos. 710, 712, 714, 716, 718, 720 and 724.

No. 23 Set—Complete in hinged cover wood box....\$11.90

Weight Per Set 101/2 lbs.

# 

Weight Per Set 201/2 lbs.

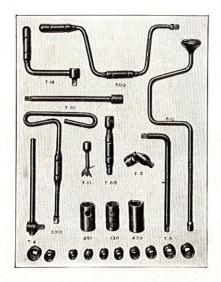
#### SQUARE PLUGS ONLY

For No. 23 Set

## Special Q. D. Wrench Sets For Fords

When
you see a
"Hex"
think of
Blackhawk

NO. 423C SET



NO. 411 SET

ECONOMY SET FOR FORD



Set Contains

One each No. 610 T5 handles. One each Nos. T11, 130, 16, 18, 20, 22, 24, 28. No. 411 Set—Set in Fibre Box. Each......\$4.50

Weight 5 lbs.

NO. 150 SET



This set is especially grouped to meet the needs of the Ford mechanic.

#### Set Contains

One each Nos. 500 brace, T15 crank handle, 610 speeder, T60 6 in. extension bar, T10 10 in. extension bar, 3310 tee handle, T4 sliding tee, T5 offset handle, T11 valve grinder attachment, T2 universal joint, 451 wheel cone and lock nut socket, 438 cam gear lock nut socket, 130 18 in. Ford spark plug socket, 432 fan shaft socket. One each hexagon sockets Nos. 14, 16, 18, 20, 22, 24, 28, 30. One square socket No. 018.

No. 423C Set—Set in Metal Case No. C.....\$16.35

Weight 22 lbs.



An inexpensive socket wrench set designed especially for the individual car owner's use. Sockets machined from solid bar steel and properly heat treated. Set contains 6 sockets, 1 offset and extension handle. Packed in metal container.

#### Hexet Contains

One each  $\frac{1}{2}$ ,  $\frac{9}{16}$ ,  $\frac{5}{8}$ ,  $\frac{11}{16}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$  in. sockets. One only offset handle, length  $\frac{7}{2}$  in.

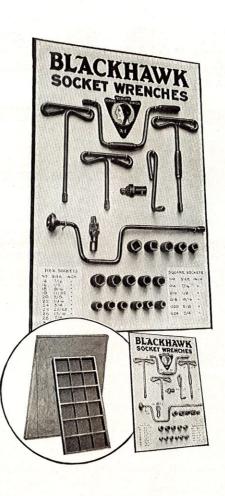
Packed six sets in attractive counter display carton.

Weight of Set 2 lbs.



## Blackhawk Quick Detachable Wrench Board

## Contents of No. 200 Display Q. D. HANDLES



#### HEXAGON SOCKETS

	Each
3 each No. 14-7/16 in.	.\$0.30
3 each No. 16—1/2 in.	30
6 each No. 18-% in.	30
3 each No. 19—1932 in.	30
6 each No. 20-5/8 in.	30
3 each No. 22—11/16 in.	30
3 each No. 24—3/4 in.	40
3 each No. 25—25/2 in.	40
3 each No. 26—13/16 in.	40
3 each No. 28-7/8 in.	40
3 each No. 30—15/16 in.	50
39 Hexagon sockets.	

#### SQUARE SOCKETS

				Each
2 No. 014—7/16	in.			\$0.30
2 No. 016—1/2	in.			.35
2 No. 018—%6	in.			.35
2 No. 020—5/8	in.			.40
2 No. 024—3/4	in.			.50
10 square sockets	s.			

No. 200 Board—Complete with 49 sockets, 18 handles, 2 universal joints and 2 ratchets. Net weight 90 lbs. List price......\$39.95

This special assortment was made up to meet the demand for a large range of wrenches. The handles and sockets are instantly interchangeable and 185 combinations can be made up from this set.

The No. 200 Display Board has handy compartments at the back for holding sockets, each compartment plainly marked with the size socket it holds.

Sockets are machined from special analysis solid bar steel, heat treated. Will give unlimited service and are interchangeable with all makes of sockets having  $\frac{1}{2}$  in. standard opening.

Display Board has metal front and is beautifully lithographed in four colors. Size of display, 22x34 inches.

# From the collections of The Henry Ford. \*BLACKHAWK MANUFACTURING COMPANY\*

## Blackhawk Q. D. Extra Heavy Duty Industrial Set

When
you see a
"Hex"
think of
Blackhawk

NO. 12 SET



Especially adapted for extra heavy duty industrial work of all kinds—Power Plants, Electric and Steam Railways, Bridge Building, etc.

#### Contents of Set

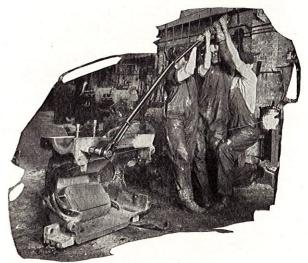
	Number	Each
One ratchet wrench handle, 20 in. long	920	\$10.00
One sliding bar, I in, diameter, 24 in, long	T4XX	1.65
One short extension, 1 in. diameter, 9 in. long	T8XX	3.30
One long extension, I in, diameter, 18 in, long.	T17XX	4.00
One offset adapter	T40XX	1.60
One nexagon socket, 11/4 in	40XX	1.00
One nexagon socket, 116 in	46XX	1.25
One nexagon socket, 1% in	52XX	1.60
One nexagon socket. It in	58XX	2.20
One nexagon socket, 2 in	64XX	2.60
One nexagon socket, 276 in	70XX	3.00
One hexagon socket, 23/8 in	76 <b>XX</b>	3.50
No. 12 Set —Complete in substantial Wooden Box. Weight 46 lbs		\$35.70
No. 12E Set —Complete in Steel Case No. E. Weight 55 lbs		42.20
No. T13XX —Extra plug for 920. Each		1.00
No. T013XX—Extra plug adapters reducing to 3/4 in. to fit heavy duty. Each.		1.00
Each.		. 1.00

Sockets have 1/8 in. square handle openings



Showing No. 12 Set in No. E steel case. Case is made of extra heavy gauge steel.

Set No. 12E—Complete.....\$42.20



This illustration gives idea of the strength of 920.

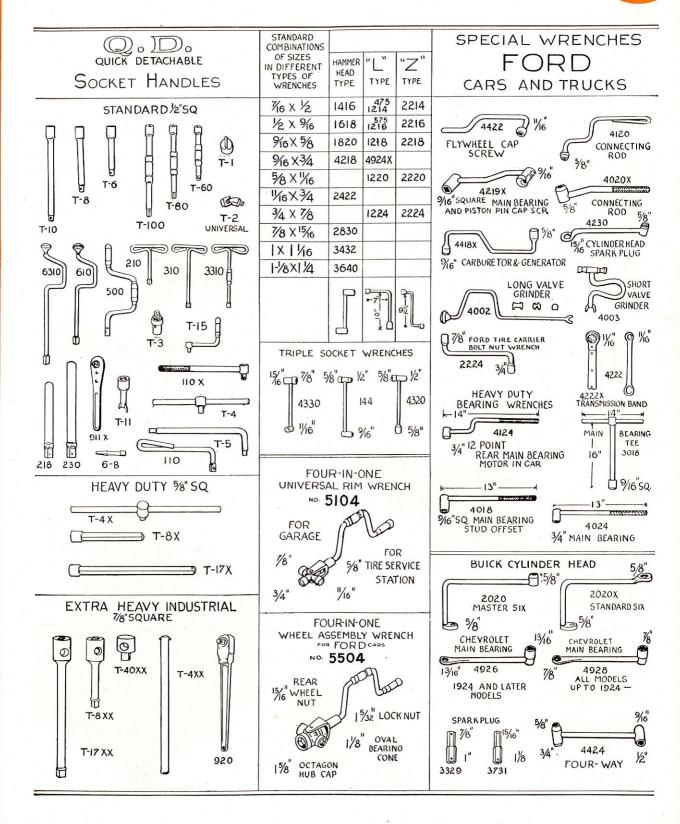


# Blackhawk Illustrated Size Guide Wrenches and Sockets

SOCKET	S.A.E. STD.	U.S.S. NUTS		QUICK	K-DE	TACHA	PLUG	s	SHORT	STAND-	LONG	STAND- ARD	RIM	RIM			UNIVER							
$\bigcirc$	NUTS &	&	HEX.	HEX.	HEX SOCKET	SQUARE	SQUARE	SQUARE UNIVER S		SQUARE UNIVER S		SQUARE UNIVER		QUARE UNIVER S		ARD SPEEDER		UNIVER SAL-	WRENCH	WRENCH WITH	SHORT	LONG	SAL JOINT	SINGL
	BOLT HEADS	BOLT HEADS	ST'D.	HEAVY	EXTRA HEAVY	SOCKET ST'D	PLUG ST'D	JOINT SOCKETS				JOINT SPEEDER	19	GRIP	166	1.00	TEE	0.1100						
5/16							710		12															
3/8				100		012	712				6.3													
7/16	1/4		14			014	714			6114					2114	3114		1114						
1/2	5/16	1/4	16		× -	016	716	T-16	4116	6116	6316	616			2116	3116	516	1116						
9/16	3/8		18		- 1	018	718	T-18	4118	6118	6318	618	j2 1		2118	3118	518	1118						
19/32	4	5/16	19	-		019				6119					2119	3119		1119						
5/8	7/16		20	HEAVY DUTY SOCKETS HAVE OPENING TO FI 3/4" SQUARE HANDLES		020	720	T-20		6120		620	5220	5020	2120	3120	520	1120						
11/16		3/8	22	SPOR		022				6122	6322	622	5222	5022	2122	3122	522	1122						
3/4	1/2		24	> 5 T	Ŀ	024	724	T24	- 1	6124		624	5224	5024	2124	3124	524	1124						
25/32		7/16	25	ARE	RIAL TO F	025				6125	10	115.01	= =		2125	3125	71	1125						
13/16	-		26	SQU	NOT	- 1			1.	6126		626	orpa s	5026	2126	3126	526	1126						
7/8	9/16	1/2	28	IEAV VE 3/4"	PEN	028		T28		6128	-	628	5228	5028	2128	3128	528	1128						
15/16	5/8		30	T A I	EXTRA HEAVY INDUSTRIAL SOCKETS HAVE OPENING TO FIT 78" SQUARE HANDLES			FIT				,		1.000			4							
31/32		%6	31		SHE		-		TOP															
1	11/16		32	32 <i>X</i>	XTX XXET	032	SS FI OLES	SAL																
1/16	3/4	5/8	34	34X	Soc	034	PLUGS VG TO FI HANDLES	STANDARD UNIVERSALJOIN SOCKETS HAVE OPENING TO 1/2" SQUARE HANDLES					FOR G	ARAGE				1003						
1/8	-44		36	36X			NIN	AVE					STATIO WE REC	N USE										
1 3/16		57		38X			STANDA /E OPE! 2" SQUA	DARI SAH,			- n		510	)4	4									
11/4	7/8	3/4	40	40X	40XX	040	STA VE (	STANDARD HAVE OPENIN 1/2" SQUARE	STA VE 12" S	CKE1		i i i			UNIVE									
13/8	6-			44X		1002	Ą,	8000					RI WRE											
17/16	1	7/8	L	46X	46XX	<b>-</b>								8										
11/2	7		ETS FI	48X	,	ETS 0 FI							183											
19/16	7		OCK AND	50X		OCK G T HAN			8	3	Z.	8	n	А	9	9		o T						
15/8	1-1/8	1	STANDARD SOCKETS HAVE OPENING TO FIT 1/2" SQUARE HANDLES	52X	52XX	AD SOCKETS ENING TO FIT ARE HANDLES		-							6%	111/2"		7%						
1 13/16	1-1/4	1-1/8	DAF OPE QUA	0.00	58XX	STANDARD HAVE OPE 1/2" SQUAF			64"	11"	20"	12"				41	12/2							
2	1-3/8	1-1/4	STAN VE		64XX	VE VE 2" S				UZ		81	4 4 1/2"	4/2			1	2" OFFSET						
	1-1/2	1-3/8	I A		70 XX	IAI																		
23/6 23/8		1-1/2			76 X X																			
- 1						5	,					QUIC	K DETA	CHABLE	HAND	LES								
		1 13		1 12								W TO	2" SQU COMPAR	CHABLE ARE EI RE WITH			PES	110						
		1 1 1		4					500	610	6310			500	210	310 3310		110 110 X T.4 T.5						

# Blackhawk Illustrated Size Guide Wrenches and Sockets







#### Blackhawk 4 in 1 Universal Rim Wrench

This wrench is a heavy duty service tool. The handle is made from  $\frac{5}{8}$  inch steel—quadruple socket is drop forged in one piece—will stand more strain than any arm can give it.

Tire service and garage men welcome this new wrench, as it saves time and trouble of hunting for various size wrenches.

No springs or ratchet arrangements are used—nothing to get out of order.

The size wanted is never lost or forgotten. Fills a long felt want of tire service stations and road service cars.

Weight  $4\frac{1}{2}$  lbs. Packed in individual cartons.



#### Blackhawk Rim Wrenches

When you see a "Hex" think of Blackhawk

#### RIM WRENCH SPECIFICA-TIONS

These wrenches fit disc wheels

Make	and	Model
of (	7	

of Car	a .	
	Series	Series
Auburn Six	5020	5220
Auburn Eight		5224
Buick, all models	5024	5224
Cadillac V-63		5220
Case	5024	5224
Chandler 33	5024	5224
Chevrolet	5024	5224
Chrysler	5024	5224
Cleveland		5224
Davis	5024	5224
Diana	5024	5224
Dodge	5024	5224
Durant	5024	5224
Elcar Six		5220
Elcar Eight		5224
Essex		5224
Flint, all models		5224
Ford	5020	5220
Franklin		5224
Gardner, all models		5224
Gray		5224
Hudson		5224
Hupmobile, all models		5220
Jewett		5224
Jordan, all models		5224
Kissel, all models		5224
Lexington		5220
Lincoln		5220
Marmon 74		5224
Maxwell 25-C	5024	5224
Moon	5024	5224
Nash, all models		5224
Oakland 6-54		5224
Oldsmobile 30		5224
Overland, all models		5224
Packard, all models		5224
Paige		5224
Peerless 6		5224
Peerless 8		5220
Pierce Arrow 80		5224
Pierce Arrow 33		5222
Reo T-6		5222
Rickenbacker, all models.		5224
Rollin		5224
		5224
Stearns Knight		5224
Studebaker		5220
Stutz		5224
Velie		5224
Willis-St. Claire		5224
Willys-Knight		5224
Yellow Cab Co	5028	5228

## DEALER'S RIM WRENCH ASSORTMENT NO. 5200

A small assortment of the three most popular sizes furnished with attractive counter display, which assures a quick turnover.



Assortment contains 18 rim wrenches as follows.

10	No.	5220 5222	Size	5/8	Each	\$0.50
3	No.	5222	Size	11	Each	.50
					Each	.50

Weight 29 lbs.

No. 5200-F

Assortment for Fords

No. 5200 F assortment contains 18 No. 5220 rim wrenches, Ford size only.

No.	5200-F-Asst.	List .	 .\$9.00

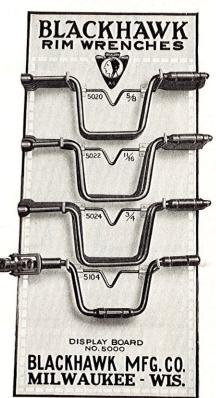
Weight 29 lbs.



Above display included with each assortment. Holds one wrench out of stock. A wonderful silent salesman when properly displayed.

Especially adapted for the small service and filling stations that have not the space to display a larger board.

DEALER'S DISPLAY BOARD NO. 5000



An attractive display containing only 21 tools. Board beautifully lithographed in four colors. A real merchandiser at small cost.

#### Contains

1	No. 5104	4 in 1.		\$3.95
8	No. 5020	Size 5/8		
4	No. 5022	Size 11	Each	.75
8	No. 5024		Each	.75

21 tools.

No. 5000—Board complete ....\$18.95

Weight of board 12 lbs., weight of tools 34½ lbs.



No. 5020	Size 5/8	Each \$0.75
No. 5022	Size 11	Each .75
No. 5024	Size 3/4	Each .75
No. 5026	Size 13	Each .75
No. 5028	Size 7/8	Each .75
	100 100 100 100 100 100 100 100 100 100	

Length over all 161/4 in., length of shank 4 in., weight each 11/2 lbs.



## Speeders Tee's and L Wrenches

#### SHORT SPEEDERS



Diameter handle  $\frac{1}{2}$  in., length over all  $14\frac{3}{4}$  in.

No. No.	4116—Socket 4118—Socket	size size	1/2	in in	Each . \$0.85
		000			

Weight 1 lb. 4 oz.

#### SHORT TEES



Short tee 6 in, long

#### L WRENCHES



No. 475

16x1/2 in. hexagon socket, 33/4x33/8 in. handle

A small and very handy wrench. Desirable for many uses.

No. 475—Each .....\$0.70

Weight 7 oz.

#### STANDARD SPEEDERS



Diameter handle  $\frac{1}{2}$  in., length over all  $19\frac{3}{8}$  in.

No.	Socket Size	Each
6114	7 in.	\$0.95
6116	1/2 in.	φυ.95 .95
6118	9 in.	.95
6119	19 in.	.95
6120	5/8 in.	.95
6122	16 in.	.95
6124	3/4 in.	.95
6125	35 in.	.95
6126	13 in.	.95
6128	$\frac{7}{8}$ in.	.95
	Weight each 1 lb 10	

Weight each 1 lb. 10 oz.

EXTRA LONG SPEEDER

Diameter handle  $\frac{1}{2}$  in., length over all 28 in.

No. 6316—Socket size  $\frac{1}{2}$  in....\$1.25 No. 6318—Socket size  $\frac{1}{16}$  in.... 1.25

Weight 2 lbs.; Code, Peru

UNIVERSAL JOINT SPEEDERS

1/2 in. steel, 205/8 in. long over all

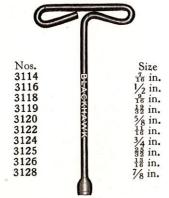
Price

Size

#### 2100 Series—Each .....\$0.65

Weight 1 lb. 2 oz. each

#### LONG TEES



12 in. shank

3100 Series-Each .....\$0.70

Weight 1 lb. 6 oz. each

#### UNIVERSAL JOINT TEES



12 in. shank

A very desirable tool for general repair work.

Weight 1 lb. 10 oz.



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{1}{2}x_{10}^{\alpha}$  in., length of handle  $\frac{51}{2}x_{10}^{\alpha}$  in.

A very popular general service tool.

No. 575—Each .....\$0.80

Weight 10 oz.



Diameter handle  $\frac{1}{2}$  in., length of handle 7x10 in.

No.	Socket Size	Each
1214	$\frac{7}{16}$ x $\frac{1}{2}$ in.	\$0.90
1216	$\frac{1}{2} \times \frac{9}{16}$ in.	.90
1218	16 x 5/8 in.	.90
1220	5/8x 1 in.	.90
1224	5/8×14 in. 3/4×7/8 in.	.90

Weight each 1 lb. 2 oz.

#### TABLE OF BOLTS AND NUTS

SOCKET SIZE	76	1/2	916	19	5	16	3	<u>25</u>	13	귷
S.A.E. NUTS CAP SCREWS	4	5/16	音		76		15			26
U.S.S. CAP SCREWS U.S.S. NUTS &BOLT HEADS	4	5	30		76		5		9/6	5/8
த்த U.S.S. NUTS இறு &BOLT HEADS		4		5/6		3/8		76		1/2

- 10	0140	11100
616	$\frac{1}{2}$ in.	\$2.50
618	$\frac{9}{16}$ in.	2.50
620	5/8 in.	2.50
622	16 in.	2.75
624		2.75
626	3/4 in. 13/6 in.	2.75
628	7/8 in.	2.75
	Weight 1 lb 14 oz	

No.

#### Off Set Wrenches



#### OFFSET



Nos.		Socket Size	Each
1114		$\frac{7}{16}$	\$ .60
1116		1/2	.60
1118		9 16	.60
1119		$\frac{19}{32}$	.60
1120		5/8	.60
1122		16	.60
1124		3/4	.60
1125		25	.60
1126		13	.60
1128		7/8	.60
	A	337	

Approx. Wt. 13 oz. each

#### DOUBLE END Z TYPE



7 X 1/2 1/2 X 16 9 X 5/8 16 X 5/8 5/8 X 16 2216 .90 2218 .90 2220  $\frac{9}{16}$ .90 2224 3/4 x 1/8 .90 5/8

Approx. Wt. 1 lb. 5 oz. Length Overall 10".



118" Hex. Socket, 34" Dia. Handle, 5" Offset, Length Overall 12".

No. 1003—Wt. 2 lbs. Each....\$1.55

#### SMALL HAMMER HEADS



Socket Size 76-1/2, Length 6 in., Dia. Handle 76, Wt. 9 oz.



Socket Sizes ½ 16, Length 6¾, Dia. Handle ½", Wt. 11 oz.

HAMMER HEAD OFFSETS



Socket Sizes 18.5%, Length 7½", Dia. Handle ½", Wt. 14 oz.



Socket Sizes 34.116, Length 91/4", Dia. Handle 16", Wt. 1 lb. 4 oz.



Socket Sizes 7/8-15/6, Length 103/4", Dia. Handle 5/8", Wt. 11/2 lbs.



DOUBLE SOCKET

Socket Sizes  $\frac{9}{16}$ ,  $\frac{3}{4}$ , Length 10", Dia. Handle  $\frac{9}{16}$ ", Wt. 1 lb. 4 oz.

TRIPLE SOCKET

Socket Sizes ½ 16.5%, Length 10", Dia. Handle ½", Wt. 1 lb.

No. 144—Each . ..... .... ... .95

Socket Sizes 16.78.16, Length 121/2", Dia. Handle 16", Wt. 2 lbs.



Socket Sizes 1" and 116", Length 121/4", Socket Sizes 1/2-5%, 5%, Length 10", Dia. Dia. Handles 5/8", Wt. 13/4 lbs. Handle 1/2", Wt. 14. oz.





FOUR SOCKETS



Socket Sizes 1½-1¼, Length 13", Dia. Socket Sizes ½-16-5½-¾, Length 10½", Handle 16", Wt. 2½ lbs. Dia. Handle 16", Wt. 1½ lbs.

When
you see a
"Hex"
think of
Blackhawk

## Miscellaneous Wrenches

#### CHEVROLET WRENCHES



Diameter handle  $\frac{5}{8}$  in., socket sizes  $\frac{9}{16}$  and  $\frac{3}{4}$  in.

This wrench designed especially for use on Chevrolet cylinder head bolts, manifold nuts, clutch yoke, etc. See Chevrolet directory page for complete uses. Also a handy tool for general use.

No. 4924X—Each .....\$1.10

Weight 1 lb. 6 oz.



Diameter handle  $\frac{5}{8}$  in., socket size  $\frac{13}{16}$  in.

Box end drop forged and ground to  $\frac{3}{10}$  in. thickness to take care of front main bearing bolt on Chevrolet 1924 and later models. Socket end fits center and rear main bearing bolts.

A tool designed especially for above

A tool designed especially for above work and no Chevrolet mechanic should be without one.

No. 4926—Each .....\$1.50

Weight 1 lb. 5 oz.



Diameter handle  $\frac{5}{8}$  in., socket size  $\frac{7}{8}$  in.

Same as No. 4926, only for 1923 and earlier model Chevrolets.

No. 4928—Each .....\$1.50

Weight 1 lb. 5 oz.



Socket sizes 3/4 and 1 in.

For clutch finger bolt nut on Chevrolet cars prior to 1924. Also can be used in place of thin open end wrench in many other places with greater safety.

No. 4950—Each .....\$0.90

Weight 6 oz.

## BUICK CYLINDER HEAD WRENCHES



Diameter handle  $\frac{9}{16}$  in., socket size  $\frac{5}{8}$  in. Buick master six cylinder head cap screw wrench. For removing cylinder head cap screws without disturbing rocker arm assembly. See photo below.

No. 2020—Each .....\$1.35

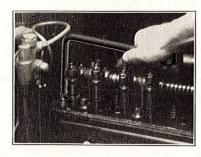
Weight 1 lb. 5 oz.



Diameter handle ½ in., socket size ½ in. Buick standard six cylinder head cap screw wrench. For removing cylinder head cap screws without disturbing rocker arm assembly. Both openings drop forged and ground to ¾ in. thickness. A real labor saving tool. See photo below showing tool in use.

No. 2020X—Each .....\$1.35

Weight 1 lb. 5 oz.



Showing 2020 or 2020X in use on Buick

#### DODGE WRENCHES



Socket size 11 in.

Special speeder for Dodge cylinder head stud nuts. Length 23 in, over all. Has ample clearance for cowl when removing rear stud nuts on cylinder head.

No. 6322—Each ......\$1.25

Weight 2 lbs.



Diameter handle  $\frac{5}{8}$  in., socket sizes  $\frac{3}{4}$  and  $\frac{7}{8}$  in.

Heavy, well designed tool for Dodge connecting rod bolt nuts, main bearing stud nuts, rear spring clip nuts, etc.

No. 2224—Each .....\$0.90

Weight 1 lb. 8 oz.



 $\sqrt[7]{6}$  x $\frac{1}{2}$  in. hexagon socket,  $3\frac{3}{4}$ x $3\frac{3}{8}$  in. handle

Especially adapted for the many small bolts and nuts on the Dodge.

No. 475—Each.....\$0.70

Weight 6 oz.

#### SPARK PLUG SOCKETS



Weight 9 oz.

No. 3329—Each......\$0.50 Fits all spark plugs with  $\frac{7}{8}$  and 1 in. hexagon.

No. 3731—Each.......\$0.50 Fits Ford and all other plugs with \$\frac{1}{6}\$ and \$1\setmines\$ in. hexagon.

#### Car Owner Sets



These sets are made up for the benefit of car owners who desire to make their own repairs. Each set has been carefully selected to meet the requirements of the particular cars designated.

NO. 45 SET FOR FORD CARS



Five tools with twelve socket openings. An ideal set for the car owner. Will enable him to take care of practically any job on the Ford. Dealers should stock this set for resale, as every Ford owner needs one.

No. 45 Set—List......\$4.20 Weight 6 lbs.

NO. 30 SET FOR CHEVROLET CARS



This small set will cover a wide range of repairs on the Chevrolet. Four tools with nine socket openings.

No. 30 Set—Each.....\$4.45

Weight 5 lbs. 7 oz.

NO. 650 SET FOR DODGE CARS



A small compact set of five tools with ten socket openings, carefully selected for the Dodge car owner.

No. 650 Set—List......\$4.40

NO. 50 SET FOR OTHER CARS



This set contains five tools with thirteen socket openings. Especially recommended for the following cars:

Buick	Flint	Oakland
Chandler	Gray	Oldsmobile
Chrysler	Hudson	Overland
Durant	Moon	Star
Essex	Nash	Studebaker

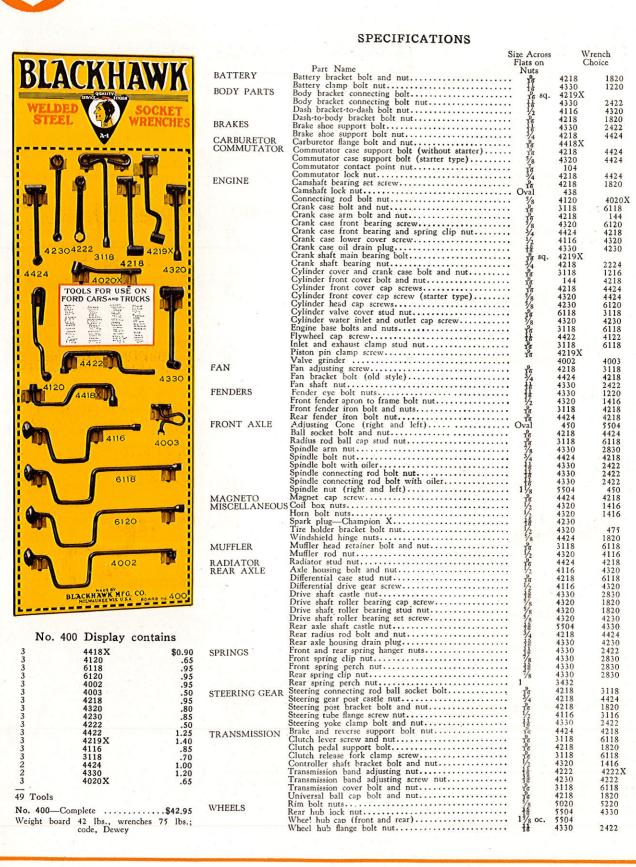
No. 50 Set—List.....\$4.80

Weight 7 lbs. 4 oz.



## No. 400 Dealers' Display Board Wrenches for Ford Cars and Trucks

#### SPECIFICATIONS



Oniversal ball cap con and Rim bolt nuts...

Rear hub lock nut...

Whee! hub cap (front and rear)...

Wheel hub flange bolt nut...

2422

49 Tools

No. 400—Complete .....\$42.95 Weight board 42 lbs., wrenches 75 lbs.; code, Dewey

#### Wrenches for Fords





Diameter handle 16 in., Socket Size 5/8 in.

Connecting rod wrench, including fourth. For all models.

No. 4020X—Each .....\$0.65 Weight 15 oz.



Diameter handle 1/2 in., Socket size 5/8 in.

Double offset connecting rod wrench. For all rods, including fourth.

No. 4120—Each .....\$0.65

Weight 1 lb. 2 oz.



Diameter handle 5/8 in., socket size

Heavy duty flywheel cap screw wrench. Special designed socket gives advantages of both socket and open end type wrenches. The socket has ample clearance and will not slip off cap screws.

No. 4422—Each .....\$1.25 Weight 1 lb. 2 oz.



Diameter handle 16 in., socket size 16 in. sq. and 16 in. hex.

Specially designed for main bearing bolts and can be used on front and center bearing bolts with motor in chassis. Special open socket for connecting rod clamp screws.

No. 4219X—Each .....\$1.40 Weight 11/2 lbs.



Diameter handle  $\frac{9}{18}$  in., socket sizes  $\frac{5}{8}$  and  $\frac{15}{16}$  in.

Spark plug and cylinder head cap screw wrench for Ford cars and trucks. Box type opening is drop forged and heat treated. A real service tool.

Weight 15 oz.



Diameter handle 18 in., socket sizes 1/2 and 5/8 in.

A handy socket wrench. Useful on any car. Especially adapted for cylinder head bolts, rear axle housing, crank case covers on Ford cars and trucks.

No. 4320—Each .....\$0.80 Weight 15 oz.



Diameter handle 16 in., socket sizes 9 and 3/4 in.

This tool very useful on Ford cars and trucks. Used on main bearing nuts, spindle bolt and nut, radius rod bolt and nut, differential case stud nuts, etc.

No. 4218—Each .....\$0.95 Weight 1 lb. 2 oz.



Diameter handle 1/2 in., socket sizes

Specially designed for Ford generator head bolts and carburetor flange bolts.

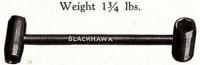
No. 4418X—Each.....\$0.90 Weight 1 lb.



Diameter handle  $\frac{5}{8}$  in., socket sizes  $\frac{11}{16}$ ,  $\frac{15}{16}$  and  $\frac{7}{8}$  in.

Extra heavy triple socket wrench used on front spring perch nut, front radius rod nut, steering arm nut, spring clip nut, front wheel flange nut, rear spring clip nuts, rear hub lock nut and drive shaft castle nut. Also many other places on the Ford, and very useful on any car or

No. 4330—Each .....\$1.20



Diameter handle  $\frac{9}{16}$  in., socket sizes  $\frac{1}{2}$ ,  $\frac{9}{16}$ ,  $\frac{3}{8}$  and  $\frac{3}{4}$  in.

A general service tool with four of the most popular socket sizes combined into one tool. Especially recommended for Ford owners and mechanics.

No. 4230—Each ............\$0.85 No. 4424—Each ............\$1.00

Weight 1 lb. 8 oz.



Diameter handle  $\frac{5}{8}$  in., socket sizes 1 and  $1\frac{1}{16}$  in.

Used on Ford rear spring perch nut, rear spring clip Ford truck. This sturdy tool also useful on general repair work.

No. 3432—Each .....\$1.45 Weight 1 lb. 14 oz.



Length 81/4 in., socket sizes 16 and 16 in. Transmission band and spark plug wrench. A popular priced wrench for the Ford car owner.

No. 4222—Each .....\$0.50

Weight 6 ozs.



Length 61/4 in., socket size 11/8 in.

Transmission band ratchet wrench heavier constructed than our No. 4222. Designed for mechanic's use. Socket end used on brake and reverse bands. Screw driver on other end for removing transmission cover door screws.

No. 4222X—Each .....\$0.90 Weight 5 oz.



Short valve grinder for Fords.

No. 4003—Each .....\$0.50 Weight 8 oz.



Length over all 19 in.

Long valve grinder for Ford. Will reach all valves, including one under dash. Extra attachments fit valves on all cars.

No. 4002—Each .....\$0.95

Weight 1 lb. 3 oz.

When you see a "Hex" think of Blackhawk

#### Wrenches For Fords

LONG TEE



Diameter handle 1/2 in., socket size 9 in., length over all 12 in.

Fits Ford clutch lever screws, crank case bolts and nuts, engine base bolts, transmission cover bolts.

No. 3118—Each .....\$0.70 Weight 1 lb. 6 oz.

LONG TEE



Diameter handle ½ in., socket size 5/8 in., length over all 12 in.

Fits cylinder head bolts, brake shoe support, drive shaft roller bearings, front and rear spring tie controller shaft bracket nuts, cylinder inlet and outlet on

No. 3120—Each .....\$0.70 Weight 1 lb. 6 oz.

UNIVERSAL JOINT TEE



Diameter handle 1/2 in., socket size 5/8 in., length over all 12 in. Fits Ford connecting rod, cylinder head, water cylinder inlet connection.

No. 520—Each .....\$2.00 Weight 11/2 lbs.

DOUBLE END HAMMER HEAD WRENCH



Diameter handle  $\frac{1}{2}$  in., socket sizes  $\frac{1}{2}$  and  $\frac{9}{16}$  in.

A useful tool on general repairs of Ford cars and trucks.

Weight 11 oz.

SHORT SPEEDER

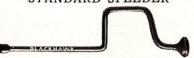


Diameter handle ½ in., socket size ½ in., length over all 14 in.

This short speeder used on lower crank case cover screws, differential drive gear screws and many places where long speeder could not be used to advantage.

No. 4116—Each .....\$0.85 Weight 1 lb. 4 oz.

STANDARD SPEEDER



Diameter handle ½ in., socket size in., length over all 193/8 in.

Especially designed for use on engine base base bolts of Ford car and on many of some parts as 3118 use this wrench where speed is required.

No. 6118—Each .....\$0.95 Weight 11/2 lbs.

STANDARD SPEEDER

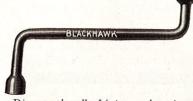


Diameter handle ½ in., socket size 5/8 in., length over all 193/8 in.

For use on cylinder head bolts on Ford cars.

No. 6120—Each .....\$0.95 Weight 1 lb. 9 oz.

> FORD TIRE CARRIER WRENCH



Diameter handle  $\frac{5}{8}$  in., socket sizes  $\frac{7}{8}$  and  $\frac{3}{4}$  in.

Used on Ford 1926 tire carrier tube bolt nut, steering knuckle arm, rear spring perch nuts, rear radius rod bolt nut and numerous other places on the Ford.

No. 1618—Each ......\$0.90 No. 2224—Each .....\$0.90

Weight 11/2 lbs.

EXTRA LONG SPEEDER



Diameter handle 1/2 in., socket size 1/2 in., length over all 28 in.

Designed especially for the 1926 Ford rear fender bolts. Also useful on many other parts of Ford.

No. 6316—Each .....\$1.25

Weight 2 lbs.

EXTRA LONG SPEEDER



Diameter handle 1/2 in., socket size 9 in., length over all 28 in.

Used on Ford fender bolts, radiator stud nuts, crank case and cylinder cover cap

No. 6318—Each ......\$1.25 Weight 2 lbs.

CONNECTING ROD UNIVER-SAL SPEEDER



Diameter handle ½ in., socket size ½ in., length over all 20¾ in.

The most efficient wrench ever designed for this job. To use wrench properly, pull the fourth piston to the top of cylinder, the brace comes below the radius rods, the universal joint makes operation

No. 620—Each .....\$2.50 Weight 1 lb. 14 oz.

ONE MAN SPEEDERS



Diameter handle 1/2 in., socket size 9 in.

Will do the work of two in one-quarter the time. Designed for use on Ford engine base bolts and nuts.

No. 6218—Each .....\$2.75

Weight 2 lbs. 10 oz.

#### Wrenches For Fords

When you see a "Hex" think of Blackhawk

#### FORD MAIN BEARING WRENCHES

Heavy Duty



Length over all 15 in., 5/8 in. diameter handle, socket size 3/4 in., 12 pt. double hex.

This wrench specially designed for taking up rear main bearing bolt nut without removing motor from car.

No. 4124—Each .....\$0.90

Weight 1 lb. 6 oz.



Length over all 14 in., 5/8 in. diameter handle, socket size 3/4 in.

A heavy duty wrench designed for main bearing bolt nuts when the motor is removed from car. Also adaptable for spindle body bolt and radius rod bolt

No. 4024—Each .....\$0.90

Weight 1 lb. 2 oz.



Length over all 14 in., 5/8 in. diameter handle, socket size 16 in. sq.

This wrench is designed to take both front and center main bearing bolts.

No. 4018—Each .....\$1.00

Weight 2 lbs. 2 oz.



Length over all 16 in., 5/8 in. diameter handle, socket size 16 in. sq.

This special wrench may be used on center main bearing with motor in car, on the front main bearing when motor is

No. 3018—Each .....\$1.50

Weight 2 lbs. 14 oz.

WHEEL ASSEMBLY WRENCH FOR FORDS NO. 5504



A real Ford wheel assembly wrench. The only wrench of its kind and patented. A time and trouble saver for all Ford mechanics and garage men. Combines speed, handiness and extra powerful lev-

Handles, Ford hub cap 15/8 in. octagon, front spindle lock nut 11/8 in. hexagon, bearing cone 11/8 in. oval, and rear axle nut 15 in. hexagon.

Also Chevrolet wheel assembly, except hub cap.

See photos below showing above tool in

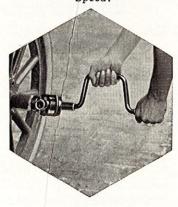
Diameter handle 3/8 in., weight 61/2 lbs.

No. 5504—Each .....\$4.95

#### Leverage!



Speed!



#### FORDSON TRACTOR SET NO. 1000



These wrenches have been designed for utility, strength and adaption to the various nuts and bolts on this tractor. The set contains solid socket wrenches of all sizes required. Special speeder with  $\frac{1}{2}$  in. square end, fits the different sockets, also the two Q. D. extensions making up speeders of 27 and 40 inches long. Tractor owners and mechanics will find this set very serviceable, as it is compact and therefore portable.

No. 1000 Set-Each ......\$13.00 Weight 151/4 lbs.

Packed in heavy fibre box.

#### SPECIAL TRACTOR SPEED WRENCH



1/2 in. diameter handle with steel knob. Has standard  $\frac{1}{2}$  in. square Q. D. end and can be used with any of our sockets.

Length over all 21 in.

A new and novel extension speeder used with special extensions No. 1006, it will make up a long and serviceable speeder of 27 and 40 inches long. Long guide in sleeve makes speeder as rigid as if solid.

No. 1005—Each .....\$1.25

Weight 1 lb. 9 oz.

#### EXTENSION FOR TRACTOR SPEED WRENCH

1/2 in. diameter shank, length over all 16 in.

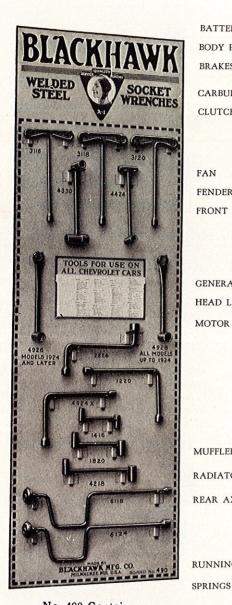
No. 1006—Each .....\$1.00 Weight 1 lb.



## No. 490 Dealer's Display Board Wrenches for Chevrolet Cars

#### CHEVROLET WRENCH SPECIFICATIONS

Size Across



TRANSMISSION

WHEELS

140.	490	Contains:

3 V	/renches	Each	Style
-----	----------	------	-------

No.	1220\$	0.90	No.	4330	\$1.20
No.	1416	.85		4424	
No.	1820	.95		4924X	
No.	2224	.90		4926	
No.	3116	.70		4928	
No.	3118	.70		6118	
No.	3120	.70		6124	
No.	4218	.95			
List	complete .			\$	44.55
Wei	ght of boar	d 42 1 code,	bs., w Envy	renches 79	lbs.,

	Part Name	Flats on	Wrench
BATTERY	Battery box bracket to frame bolts	Nuts	Choice 575
BODY PARTS	Body to frame bolt nuts		T-5 and 020
BRAKES	Brake shaft lever bolts	1/2 16	1416 575 1820 575
CARBURETOR	Carburetor to manifold screw	1/2	1416 3116
CLUTCH	Clutch cover to flywheel screw	10	4924X 3118
	Clutch collar ball thrust cap screw. Clutch collar trunnion screw. Clutch pedal adjusting bolt.	10 1/2 3/4 10 3/4 10	4424 1214 4950 4924X
	Clutch pedal adjusting bolt	16 3/	4424 1218 4424 1224
	Clutch pedal adjusting nut	16	4924X 3118
FAN	Fan to stud screw	70 10	1416 1214
FENDERS	Fender bracket bolts	9 16	4924X 3118
FRONT AXLE	Drag link plug	7/	T-5 and T-1 4330 2224
	Steering arm ball nut. Steering knuckle king bolt nut. Steering knuckle Steering rod pitman arm. Steering rod pitman arm.	7/8 7/8	4330 2224 4330 2224
	Steering rod pitman arm	110	3432 4330 2830
	Steering tie rod yoke bolt	3/4	4924X 2422
	Steering tie rod yoke bolt Steering tie rod yoke bolt nut Steering tie rod yoke clamp bolt	1 16 15 3/4 7/8 16	2830 2224 4924X 575
GENERATOR	Generator to motor screws	1/2	1416 4424
HEAD LAMPS	Head lamp stud nut	3/4 sq.	T-5 and 024
MOTOR	Connecting rod (wrist pin end)	16	4924X 6118
	Connect rod cap screw	16	4924X 1216
	Flywheel to crankshaft screws	16	4924X 6124 4424 6118
	Intake and exhaust manifold stud nuts	10	3118 6118
	Main bearing bolts	5/8	4926 4928 1220 3120
	Motor arm to frame bolts	5/8	3120 1220
	Motor drain plug. Oil pan bolts. Oil pump to motor screws. Rocker arm bracket screw.	1/2 sq.	T-5 and 016 3116 1216
	Oil pump to motor screws	10	1416 3114
	Water pump screw.	977778488888999999999999999999999999999	3116 575 1220 3120
	Water pump screw	1/2	3116 575
MUFFLER	Muffler to bracket bolt	1/2 sq.	T-5 and 016
RADIATOR	Radiator stud nut	9 sq.	310 and 018
REAR AXLE	Differential case screw	198 3/4	4924X 2216
	Drive shaft nut	1	4924X 2224 3432 T-5 and 016
	Rear axle drain plug	1/2 sq.	T-5 and 016 575 4424
	Drive shaft housing screws Drive shaft nut Rear axle drain plug. Rear axle housing bolts. Rear axle nut	1 16	575 3432 4424 1003
RUNNING BOARD	Running board to support nut	7 sq.	T-5 and 014
SPRINGS	Spring bolt and nut (front and rear)	7/8	2830 4330
	Spring U bolt nut (front and rear)	7/8 3/4 15 16	2224 4330 4924X 2830
STARTER	Starter to bracket screws	10	3118 6118
	Starter to bracket screws. Starting switch bracket bolts. Bendix drive screw.	16 3/4 1/2	1224 4924X
	Zendia dilve stewarti	72.	475 4424
STEERING GEAR	Steering arm nut	110	3432
	Steering column support flange bolt	16 5/8	4218 1216 1220 3120
	- All Control of the	/8	3120

Spline shaft nut...
Transmission bearing screws.
Transmission cover screws.
Transmission drain plug.
Transmission filler plug.
Transmission to motor arm bolt.
Transmission to motor arm bolt nut.
Universal joint housing.

Demountable rim bolt nuts.....

4330 4424 3116 4219X 4219X

1820

5024

1220 1224 1216

5224

# From the collections of The Henry Ford. BLACKHAWK MANUFACTURING COMPANY

# No. 6500 Dealer's Display Board Wrenches for Dodge Cars



#### DODGE WRENCH SPECIFICATIONS

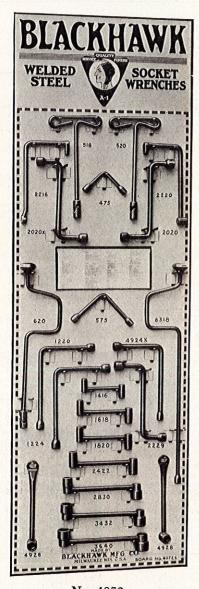
	BRAKES	Part Name Brake band to support bracket nut	Size Across Flats on Nuts	Wrench Choice 516 616
<b>BLACKHAWK</b>	CARBURETOR	Carburetor to manifold cap screws	. 1/2	3116 575
DERCMINAWN	CLUTCH	Clutch pedal clamp bolt	. 1/2	475 1416
STEEL SOCKET WRENCHES	FAN	Fan adjusting screw	. 5/8	1220 1820
WALKERS	FENDERS	Front fender to frame bolt and nut Front fender bracket to frame bolt and nut Rear fender to body nuts.	. 1/2	3118 6118 4424 475 516 475
3118	FRONT AXLE	Drag link plug	. 3/4 . 1 . 156 . 136	T-4 and T-1 2224 3432 4330 2830 3432 1003 1820 575
TOOLS FOR USE ON ALL DODGE CARS  6322  6116	MOTOR	Breather Screws Connecting rod bolt nut. Cylinder head stud nut. Cylinder water inlet stud nut. Cam shaft gear cap screws. Engine shield bolt and nut. Engine support bolt (front) Expanse support bolt and nut (rear) Exhaust manifold Flywheel to crankshaft bolt and nut. Main bearing stud nut. Oil pan screws. Oil pan strainer and pipe screw. Oil pump screws. Push rod guide crab stud nut. Timing gear cover screws. Timer coupling bolts. Water pump gear cover screws. Water pump gear housing screws. Water pump to motor screws.	3/116161/27625/8265/47/8/2/2/2/2/66/2/2/2/2/2/2/2/2/2/2/2/2/2/	475 3116 2224 4424 6322 1220 3118 1820 6116 4424 475 1416 3118 1216 2830 2224 6118 3118 2422 2224 4330 3116 6116 475 2216 475 2216 475 1416 3116 2216 475 1416 3116 256
1216	MUFFLER	Muffler bracket bolts and nuts	. ½ sq.	T-4 and 016
	RADIATOR	Radiator stud nut	. 3/4	310, T-6 & 24
2830	REAR AXLE	Axle drive shaft nut.  Differential carrier cap stud nut.  Differential carrier clamp bolt.  Differential carrier clamp bolt nut.  Differential carrier housing bolt.  Differential case screws.  Differential case to ring gear screw.  Propeller shaft bearing retainer screw.  Propeller shaft bearing retainer screw.  Rear axle drain plug.  Rear axle housing cover screws.	. 7/8 . 7/8 . 1 . 5/8 . 1/6 . 1/6 . 1/6 . 1/4 . 1/6 sq.	3640 4330 2224 4330 2830 3432 1820 1220 1820 6118 1820 6118 1216 1820 3640 Tr.5 and 014 475 2214
000 6116	RUNNING BOARD	Running board to support nut	. 18 sq.	4219X
BLACKHAW WING. CO.  BILLIACKLE ST. U.S.A. BOARD No. 6500  No. 6500 Contains:	SPRINGS	Front spring bolt nuts.  Front spring clamp bolt and nut. Front spring clip nuts.  Rear spring bolt nut (front) Rear spring bolt nut (rear) Rear spring clamp bolt and nut.  Rear spring clip nut.	. <sup>5</sup> / <sub>8</sub> . <sup>3</sup> / <sub>4</sub> . 1	4330 2830 1820 2220 2224 4424 3432 4330 2830 1820 2220 4330 2224
3 Wrenches Each Style	STARTER, GENERATOR	Starter generator adjusting bracket screws Starter generator clamp strap to motor screw Starter generator chain inspection cover screw	. 1/2	3116 1216 3116 1216 3116 1216
No. 475. \$0.70 No. 3116. \$0.70 No. 1216. 90 No. 3118. 70 No. 1220. 90 No. 3432. 1.45 No. 1416. 85 No. 6116. 95 No. 1820. 95 No. 6118. 95 No. 2216. 90 No. 6322. 1.25 No. 2224. 90 No. 4424. 1.00 No. 2830. 1.45	STEERING GEAR	Steering gear case Steering gear case clamp bolt Steering gear case bracket clamp bolt Steering gear shaft connection bolts Steering lever arm clamp bolt Steering post bracket bolt	· 5/8 · 11 · 16 · 3/4	1416 475 1820 4424 1220 3122 2216 575 1224 4424 2216 575
List complete	TRANSMISSION	Transmission case to block bolts	. 1½ . ½ sq. . 1¼ . ½	575 516 1416 3116 T-5 and 016 3640 475 3116 1416 516 575 6116
	WHEELS	Demountable disc wheel nuts	; <sup>3</sup> / <sub>4</sub>	5024 5224 2224 4424



## No. 4072 Display Board Miscellaneous Wrenches

#### A MUCH NEEDED SALES STIMULATOR

The 4072 Display Board contains an assortment of miscellaneous wrenches for general repairs, giving them proper display for the first time. It shows several new tools for which there is an urgent demand. One of these boards should be in the Sales Room of every Blackhawk Jobber and Dealer. Sales of miscellaneous Blackhawk Tools, as well as the new numbers, will be largely increased by this new display board. Board has Metal front richly lithographed in four colors, making a very attractive display.



No. 4072
List complete\$57.80
Weight of board 42 lbs., weight
of wrenches 68 lbs.; code, Gull.

#### No. 4072 Contains

Quant	ity No.	Description	Price
2	475	7/16" and 1/2" "L" type	\$0.70
2	518	%6" Universal tee	2.00
2	520	5/8" Universal tee	2.00
2	575	1/2" and %6" "L" type	.80
2	620	5/8" Universal speeder	2.50
2	1220	11/16" and 5/8" "L" type	.90
2	1224	3/4" and 7/8" "L" type	.90
2	1416	$\frac{7}{16}$ " and $\frac{1}{2}$ " Double offset hammer head	.85
· 2	1618	$\frac{1}{2}$ " and %6" Double offset hammer head	.90
2	1820	$\%6''$ and $\frac{5}{8}''$ Double offset hammer head	.95
2	2020	Special Buick Master Six cylinder head	1.35
2	2020X	Special Buick Standard Six cylinder head	1.35
2	2216	1/2" and %6" Double offset "Z" type	.90
2	2220	5/8" and 11/16" Double offset "Z" type	.90
2	2224	3/4" and $1/8$ " Double offset "Z" type	.90
2	. 2422	<sup>11</sup> / <sub>16</sub> " and <sup>3</sup> / <sub>4</sub> " Double offset hammer head	1.15
2	2830	7/8" and 15/16" Double offset hammer head	1.45
2	3432	1" and 11/16" Double offset hammer head	1.45
2	3640	$1\frac{1}{8}$ " and $1\frac{1}{4}$ " Double offset hammer head	1.60
2	4924X	%6" and 3/4" "L" type	1.10
2	4926	13/16" Special Chevrolet main bearing, 1924 and later models	1.50
2	4928	7/8" Special Chevrolet main bearing, all models up to 1924	1.50
2	6318	%6" Extra long speeder	1.25

#### Rest-A-Foot-Throttle





A complete accelerator with an automatic foot-rest. Provides comfortable driving position at all speeds—eliminates leg strain.

Merely shifting weight of foot from gas button to foot rest holds both button and rest steadily in position at any speed over any road. To accelerate, step on the gas, as usual. When foot is lifted both button and foot rest return to idling position.

Eliminates jerky acceleration—weight of foot on rest holds throttle steady. Guaranteed. Individually packed in attractive box—ten to the carton.

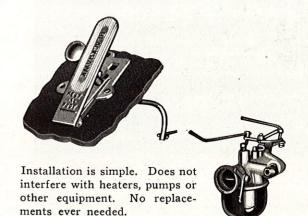
#### DEALER'S DISPLAY FREE—

With first order for eleven (11) Rest-A-Foot Throttles (ten for stock—one mounted on display stand). This sale-maker is made of heavy gauge steel attractively lithographed in three colors—yellow, red and black. An indestructible counter display that puts the Rest-A-Foot in front of the customer where he can operate it and sell himself.

#### DEALER'S DISPLAY



Nationally advertised.



When
you see a
"Hex"
think of
Blackhawk

## Blackhawk Water Pumps For Ford Cars and Trucks





The BLACKHAWK "Chief" is as rugged as the Ford engine itself. Has volute shape case with four-blade curved impeller, semi-enclosed. Three long bronze bearings in one casting, assuring perfect alignment and long life. Grease lubricators at all wearing points. Shaft of heavy cold rolled polished steel,  $\frac{5}{8}$  in. diameter.

This centrifugal pump, featuring turbine design, will pump more water than any other pump made for Fords. Keeps motor at temperature necessary for greatest power. Eliminates overheating in summer and freezing in winter. Flanged pulley prevents belt slipping off. Aggressively advertised in leading trade and consumer magazines.

Individually packed in neat, stout carton—six cartons to a case

Weight net 83/4 lbs., in carton 101/4 lbs., case 67 lbs. Belt sizes: Fords previous to 1926 require 33 in. belt—1926 models use 36 in. belt.

Price, complete with belt and horn bracket.....\$7.50

A first class pump that will improve the efficiency of the Ford motor. Has many features of the BLACK-HAWK "Chief." Second only to the "Chief" in pumping power and performance. Equipped with curved three-blade bronze impeller.

Big bronze bearings with grease lubricator at belt end. Husky construction throughout. Flange pulley prevents the belt from running off.

Individually packed in neat, stout carton—six cartons to a case.

Weight net  $7\frac{1}{2}$  lbs., in carton 9 lbs., case 59 lbs. Belt sizes: Fords previous to 1926,  $32\frac{1}{2}$  in.—1926 model takes 36 in. belt.

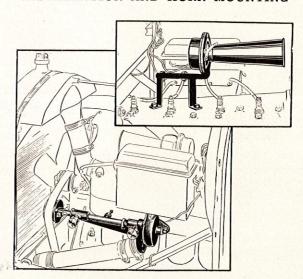
Price, including belt and horn bracket......\$5.00

#### FREE DISPLAY



This attractive two-color steel display holds a "Chief" or "Scout" from stock. Free with first order of six BLACKHAWK water pumps for Fords.

#### INSTALLATION AND HORN MOUNTING



Cut shows both installation of pump and new horn mounting.

Note ideal location of horn in center of motor block where tone is not muffled. Does not interfere with mechanic working on spark plugs or coil box.

## Blackhawk Water Pumps

When
you see a
"Hex"
think of
Blackhawk

#### FOR FORDSON TRACTOR



This sturdy, efficient BLACKHAWK water circulator will enable the powerful Fordson motor to stay on the job day and night without "cooling off" periods.

Turbine type with five-blade bronze impeller, semi-en-

Equipped with idler pulley which takes belt slack—3/4 inch cold rolled steel shaft—flange pulley—double bronze bushed bearing—grease lubricators at bearings. Individually packed and shipped. Weight net 26 lbs., packed 31 lbs.

Price ......\$15.00

Regular Fordson belt used—no change necessary.

## FLANGED STEEL CRANKSHAFT PULLEY FOR FORDS



Flange prevents belt slipping off. Sturdily made of steel. Fits all models of Ford cars and is easily attached. Prevents belt from saturation of oil.

Each pulley packed in individual container. Ten in an attractive counter display box. Weight per carton of ten 8 lbs., case of one hundred 87 lbs.

Price, each ......\$0.75



Display carton of ten.

#### FOR CHRYSLER "FOUR"

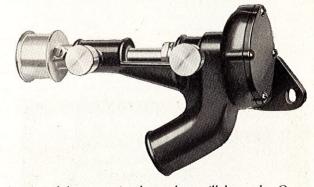


Will keep the Chrysler motor at highest efficiency under varying temperatures. No over heating in summer nor freezing in winter after installing this BLACK-HAWK water pump.

This pump embodies the turbine-type design. Bronze bearings at all wearing points. Equipped with Alemite Zerk lubricators. Packed individually in neat, stout carton—six cartons to a case. Weight net 7 lbs., in carton 8 lbs., case 52 lbs.

Regular Chrysler belt used—no change necessary.

#### FOR OVERLAND "FOUR"



A powerful water circulator that will keep the Overland motor at temperature necessary for best results. Eliminates over heating and resulting repairs. Assures longer life and more pep to motor at lower upkeep. Turbine type—four blade bronze impeller semi-enclosed in volute shape case—1/8 inch steel shaft—flange pulley. Individually packed in neat, stout carton—six cartons to a case. Weight each 7 lbs., in carton 8 lbs., case 52 lbs.

Price, including belt......\$7.50

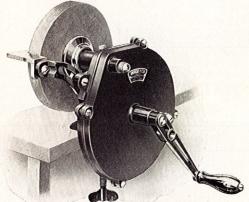
(Belt: 371/2 inches long by 7/8 inch wide.)

When
you see a
"Hex"
think of
Blackhawk

## American and Champion Hand Tool Grinders

#### AMERICAN QUALITY TOOL GRINDERS

Nos. 1, 2, 3, 4

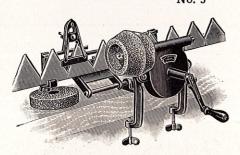


The American Quality Tool Grinder is a perfectly balanced smooth running grinder with oil tight gear case. Clamp of malleable iron and finished in a high grade baked black enamel. Made in four sizes. Equipped with corundum grinding wheels.

#### List Prices

No.	1-4x1	"	wheel.\$ 5.90
No.	2-5x1	"	wheel. 8.10
No.	3-6x1	"	wheel. 10.35
No	4 7v11/	"	wheel 15 25

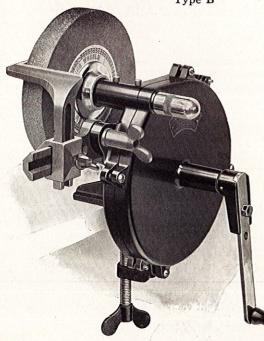
## AMERICAN SICKLE AND TOOL GRINDER



The American No. 5 Sickle and Tool Grinder is a high class grinder for farm use—smooth running, noiseless and dirtproof. Ball bearing and worm shaft drive. Clamps of malleable iron. Finished in a high grade baked black enamel. Size of sickle wheel 41/2x31/2 inches, tool wheel 5x11/4 inches.

List price ......\$11.00

## AMERICAN LIBERTY MODEL Type B



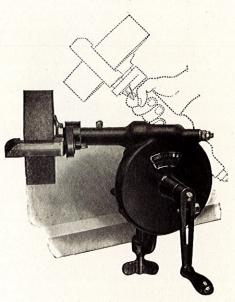
The American Liberty Model Type B is the highest grade hand power grinder. A powerful fast cutting grinder built for hard service. Attachments available for sharpening twist drills, chisels and trueing wheel. Finished in baked black enamel. Size of grinding wheel 7x13/8 inches. The Liberty Grinder is recommended for use in shipyards, railroad and construction work, lumber camps, mining, signal and line repair work, etc.

#### List Prices

Grinder	\$19.00
Twist drill at-	
tachment	16.70
Chisel attach	5.60
Trueing attach	3.35

#### AMERICAN TILTING GRINDER

No. 6

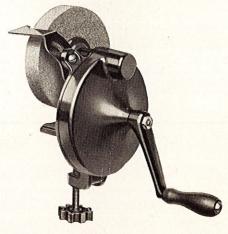


The American No. 6 Tilting Grinder is a high grade grinder, especially recommended for broad-edge tools. Has adjustable grinding wheel. Ball bearings and worm shaft drive at 20 degree angle to clear handle. Clamp of malleable iron. Finished in baked black enamel. Size of wheel 5x1½ inches.

List price .....\$11.10

## CHAMPION TOOL GRINDER

Nos. 14, 15, 16



Champion popular priced grinders, in three sizes. Finished in baked green enamel.

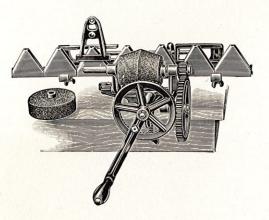
#### List Prices

No.	14-4x1	in.	wheel						\$3.45
No.	15 - 5x1	in.	wheel						4.55
No.	16 - 6x1	in.	wheel						5.35

## Champion and Power Grinders

When
you see a
"Hex"
think of
Blackhawk

CHAMPION NO. 25



A good serviceable farm grinder will take care of all ordinary grinding jobs about the farm. Fitted with two grinding wheels—one  $3\frac{1}{2}x3\frac{1}{2}$  inch cone shaped wheel for sickles and one  $4x1\frac{1}{4}$  inch flat faced wheel for tools. Sickle holder will take any make of sickle. Finished black enamel.

List price ......\$8.80



The American No. 50 Power Grinder is a simple, inexpensive, yet efficient grinder for shop use. Furnished complete with adjustable tool rests and two corundum grinding wheels, each 6x11/4 inches, one coarse and one fine grit.

List price .......\$13.35

FARM EQUIPMENT NO. 60

BUDDY GRINDER

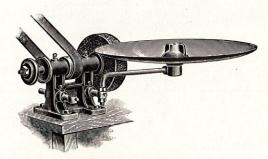


The Buddy is the lowest priced grinder in the line. It makes a good household sharpener for knives and small tools. Finish green enamel with red flanges. Fitted with  $4x\frac{3}{4}$  inch wheel.

List price ......\$2.75

The American No. 60 Power Head for farm use is equipped with two corundum grinding wheels, each  $6x1\frac{1}{4}$  inches, one coarse and one fine grit; one large bevel sickle cone, one automatic sickle holder, and one disc grinding attachment as shown below.

List price ......\$19.00



Disc Grinding Attachment.

# From the collections of The Henry Ford. BLACKHAWK MANUFACTURING COMPANY

When
you see a
"Hex"
think of
Blackhawk

Memoranda

